AMENDMENTS TO THE CLAIMS:

This listing of claims will replace, without prejudice, all prior versions, and listings, of claims in the application.

Listing Of The Claims:

1.-11. (Canceled).

12. (Currently Amended) A signal processing device for processing a knocking signal of an internal combustion engine provided by a knocking sensor, comprising:

an arrangement for receiving control information at an input;

an arrangement for checking the received control information;

a memory for storing the control information; and

an arrangement for checking the stored control information for correctness;

at least one filter having a property influenceable by the control information, wherein[[:]] the control information is checked and an alternate measure is taken if the check reveals that the control information is incorrect.

13. (Canceled).

14. (Canceled).

15 (Currently Amended) The signal processing device as recited in Claim 12, wherein[[:]] the control information includes a filter coefficient.

16. (Currently Amended) The signal processing device as recited in Claim 12, further comprising:

an arrangement for cooperating with a control unit, wherein[[:]] the control unit generates the control information, and the control unit influences a combustion process in the internal combustion engine on the basis of the knocking signal.

17. (Currently Amended) The signal processing device as recited in Claim 14, wherein[[:]] alternate values are used for the control information as an alternate measure, and the alternate values are one of read from the memory and calculated from non- erroneous control information.

18. (Currently Amended) A control unit for cooperating with a signal processing device including at least one filter having a property influenceable by control information, the control information being checked and an alternate measure being taken if the check reveals that the control information is incorrect, the control unit comprising:

    an arrangement for receiving a measurement message of the signal processing device, the measurement message containing information derived from a knocking signal;

    an arrangement for checking the measurement message for errors and initiating the alternate measure in the event of an error; and

    an arrangement for generating and outputting the control information to the signal processing device.

19. (Canceled).

20. (Currently Amended) The control unit as recited in Claim [[19]] 18, further comprising:

    an arrangement for checking the measurement message to determine whether the measurement message was corrupted during transmission from the signal processing device to the control unit.

21. (Previously Presented) The control unit as recited in Claim 18, further comprising:

    an arrangement for checking the measurement message to determine whether the measurement message contains information about an error occurring in the signal processing device.

22. (Previously Presented) The control unit as recited in Claim 18, further comprising:

    an arrangement for taking the alternate measure by influencing an ignition angle that triggers an internal combustion engine.

23. (New) A signal processing device for processing a knocking signal of an internal combustion engine provided by a knocking sensor, comprising:

an interface to receive control data, including filter coefficients;

a memory to store the filter coefficients;

a filter to receive the filter coefficients and to filter, based on the filter coefficients, a received knocking sensor signal; and

a processing device to check the filter coefficients stored in memory for errors, and responsive to detecting a quantity of errors, causing a correction mechanism to activate.

24. (New) The signal processing device of claim 23, wherein the correction mechanism causes a re-transmission of control data found to have errors.

25. (New) The signal processing device of claim 23, wherein the correction mechanism prevents further adjustments of an ignition angle.

26. (New) The signal processing device of claim 23, wherein the correction mechanism causes the combustion engine to revert an operating state known to prevent knocking.

27. (New) The signal processing device of claim 23, wherein the processing device determines a memory location an error occurs at, and wherein the correction mechanism prevents further use of a memory location, responsive to a quantity of errors being detected at the memory location.

28. (New) The signal processing device of claim 23, wherein the activation of the correction mechanism is performed in response to detecting a quantity of errors during a period of time.

29. (New) The signal processing device of claim 28, wherein the processing device operates in cycles, and the period of time is a quantity of cycles.

30. (New) The signal processing device of claim 28, wherein responsive to the detected quantity of errors during a period of time dropping below a threshold, the correction mechanism is caused to be deactivated.

31.   (New) The signal processing device of claim 23, wherein the processing device checks the received control data for errors, and responsive to detecting a quantity of transmission errors, performs a corrective action and causes a re-transmission of control data having errors.